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BIMONTHLY REPORT FOR NAS5-21816, PROPOSAL 299  
for the period August 1, 1973 - September 31, 1973

TASK 3 (UN 672) The Use of ERTS-1 to More Fully Utilize and  
Apply Marine Station Data to the Study of Productivity  
along the Eastern Shelf Expanded Waters of the United States  
Dr. H. G. Marshall

Submitted to the

Goddard Space Flight Center  
National Aeronautics and Space Administration

By the

Old Dominion University Research Foundation  
P. O. Box 6173  
Norfolk, Virginia 23508

E73-11154) THE USE OF ERTS-1 TO MORE  
FULLY UTILIZE AND APPLY MARINE STATION  
DATA TO THE STUDY OF PRODUCTIVITY ALONG  
THE EASTERN (Old Dominion Univ. Research  
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## B I - M O N T H L Y   R E P O R T

ERTS-1            Proposal 299-3

Report Period:     August - September 1973

Principal Investigator:    Harold G. Marshall  
                                 Department of Biology  
                                 Old Dominion University

1. The examination of phytoplankton samples taken during the spring collections of the U. S. Marine Fisheries Service vessel were completed. This series contained 117 surface samples.
2. A transfer of all data concerning these collections was made to computer cards. The data included species noted, the number of each species, phylogenetic group the species belonged to, total phytoplankton count, station number and location co-ordinates, depth, water temperature, and salinity, chlorophyll values, the month and year of collection, and distance from shore. The computer facilities at Old Dominion University will be utilized for analyzing this information.
3. Water sample collections off the entrance to Chesapeake Bay continued during ERTS flights on August 12, August 30, and September 17. Five collection sites were placed along a transect extending from South Island of the Chesapeake Bay Bridge-Tunnel System to the Chesapeake Light. At each site a water sample was taken for phytoplankton analysis and chlorophyll, with water temperature and salinity also determined. All these collections were taken aboard the Old Dominion University vessel LINWOOD HOLTON.
4. The quantitative and qualitative examination of phytoplankton took place in the Old Dominion University laboratory of the above mentioned water samples.
5. Further correlation of sea truth data and NASA data products will take place upon receipt of the positive transparencies for the project area.
6. Ship schedules have been arranged to continue collections and sea truth information for the offshore waters of the Chesapeake Bay entrance.